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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

James B. Hunt Jr. Governor DIVISION OF HIGHWAYS

Garland B. Garrett Jr. Secretary

July 21, 1997

Ms. Sherri Knight
Division of Water Quality
Groundwater Section
585 Waughtown Street
Winston-Salem, NC 27107-2241

RE: Tank Closure

NC DOT-Mocksville

RECEIVED N.S. Dept. of EHNR

JUL 2 4 1997

Winston-Salem Regional Office

Dear Sherri:

Enclosed is the tank closure report for the 3-10,000 gallon fuel tanks and 1-3,000 gallon kerosene tank at the Mocksville DOT facility. There was very little information in the files except the original lab results, a rough sketch and various correspondence.

Composite soil samples were collected during closure, but a closure report apparently was not submitted in 1990 for these tanks. Based on these results, no contamination is present. After a closure report was submitted for the waste oil tank in August, 1996, the site was ranked 20/E. The area is served by the Davie County Water System. If you have questions, please call me at (919) 733-2220.

Sincerely,

Eric Motzno, L.G. Hydrogeologist

cc: D. B. Waters

Division Engineer

TANK CLOSURE REPORT

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROUTE 1, BOX 403A MOCKSVILLE

BY

ERIC MOTZNO, L.G. HYDROGEOLOGIST

JULY 21, 1997

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TANK CLOSURE REPORT NORTH CAROLINA DEPARTMENT OF TRANSPORTATION MOCKSVILLE

I. GENERAL INFORMATION

The owner of the fuel tanks is the North Carolina Department of Transportation, 4809 Beryl Road, Raleigh, NC 27606. The phone number for this office is (919) 733-2220. The facility is listed in the UST database as NC DOT, DIV OF HWY, facility ID #0-025555, located on SR 1141 (Prison Camp Road), 2 mi. west of Mocksville (See Figure 1). The phone number for the facility is (704) 634-2400.

The contact person for this site is Mr. Gary Burrow and can be reached at (910) 896-7014. The closure contractor was DOT-Mocksville. The laboratory analyses were provided by DOT Materials and Tests Unit, P.O. Box 25201, Raleigh, NC 27606 and can be reached at (919) 733-3532. This information is reported on Form UST-2, found in Appendix A.

There were four regulated tanks removed in 1990. These include 2-10,000 gallon gasoline tanks, 1-10,000 gallon diesel tank and 1-3,000 gallon kerosene. The location of each tank is shown in Figure 2. The 3 large fuel tanks were installed in December 1974 and were removed in March 1990. The kerosene tank was installed in 1955 and was removed in October, 1990. The large tanks were steel and measured approximately 8' by 26.5'. These tanks were registered with DEM as Facility # 0-025555. All UST fees were paid prior to removal.

There are no known instances of past releases of gasoline, diesel or kerosene at this site. There is a 10,000 gallon gasoline and diesel tank and a 2,000 gallon waste oil tank at this site still in use, therefore, the facility is still active. The surrounding area consists of rural farm land with only 5 residences within 1500 feet. The area is served by the Davie County Water System.

According to the <u>Geologic Map of North Carolina</u>, 1985, the area is in the Metamorphosed Mafic Formation of the Charlotte Belt. Locally, the area is covered by a thick, weathered residuum. The top of the surficial aquifer varies from 20 feet below surface to as much as 40 feet deep.

II. CLOSURE PROCEDURES

On February 1, 1990, the Division of Environmental Management was notified of the tank closure when the letter in Appendix B was submitted. Since field activities are now complete, a Form UST-2 Site Investigation Report For Permanent Closure has been completed and is submitted in Appendix A.

DOT personnel began tank removal by excavating to expose the product lines. The lines were disconnected and remain under the concrete pad around the dispensers. Dispensers for the new fuel tanks are installed in the same place as the old dispensers. Excavating continued until the trackhoe was able to lift the tank from the pit. Two of the tanks were sold to the Town of Kernersville and are used in testing the fire department pump unit. Appendix C contains a letter from the Kernersville Public Works Director concerning 2 tanks. The final disposition of the other two tanks is unknown.

The tops of the tanks were approximately 3 feet below surface. The dimensions of the tank pits are unknown, but were probably slightly larger the tanks themselves. Contaminated soil was not noted during removal, so excavated soil was returned to the tank pits. The soil was a clayeysilt.

III. SITE INVESTIGATION

A composite soil sample was collected from beneath each fuel tank at a depth of approximately 12 feet, by trackhoe on March 12, 1990. These samples were immediately placed in jars and placed on ice until delivery to the lab. The locations of these samples are shown in Figure 3. The samples were labeled UST#411 3-1, UST#412 2-1 and UST#413 1-1 and were submitted to the DOT lab on March 14, 1990. No samples were collected from beneath the dispensers.

A composite soil sample was collected from beneath the kerosene tank at depth of approximately 9 feet on October 9, 1990. This sample was submitted to the DOT lab on October 10, as sample S-1.

Each of the four samples were analyzed by Method 3450 for volatiles and semi-volatiles. All four samples were below detection limits as shown on the lab reports dated May 10 and October 30, 1990. These results are found in Appendix D.

IV. CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the soil samples collected during tank the removals no further investigation or action is recommended. This report will be kept on file for a minimum of three years in this office.

V. Certification

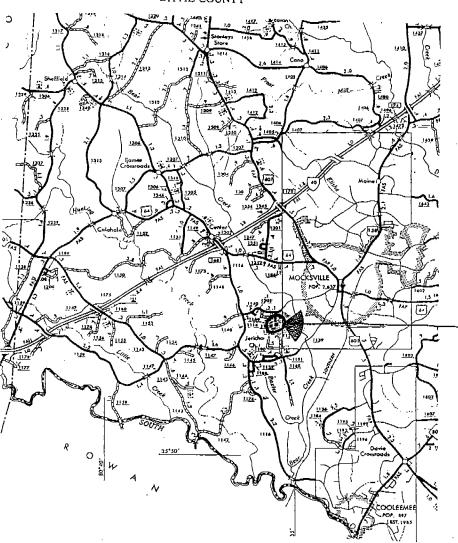
In accordance with Title 15A, NCAC, 2N .0803, this report was prepared using the best available information at the time of the report preparation. This report follows the format of a GW/UST-12 form, therefore, a form UST-12 was not included.



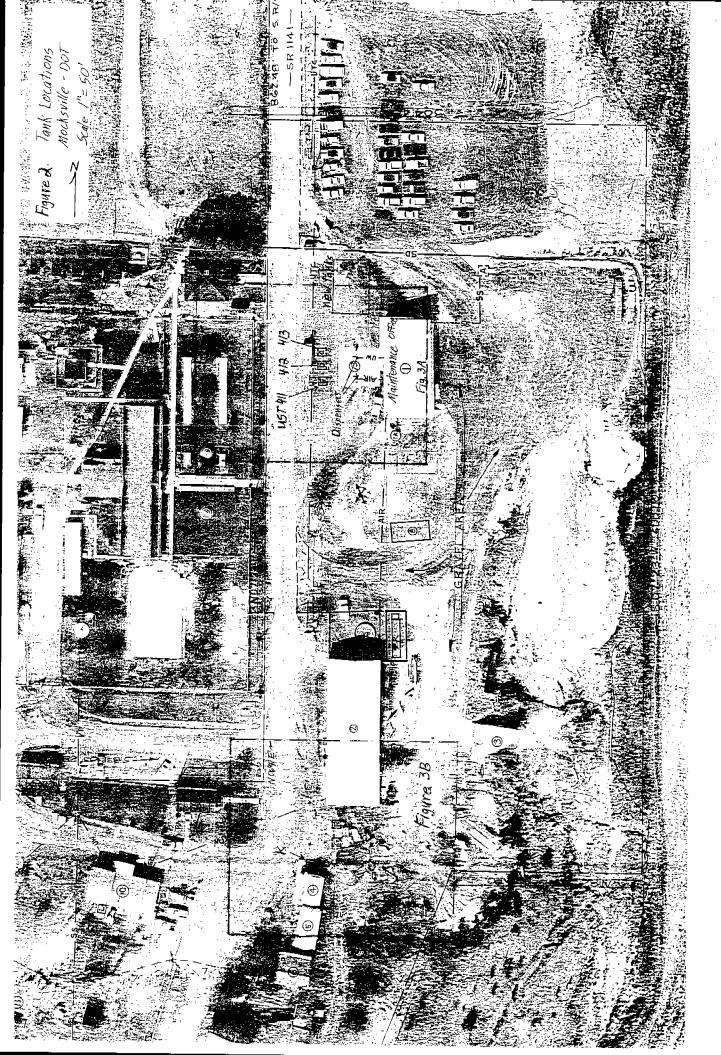
Eric Motzno, L.G. Hydrogeologist

FIGURES





CITY: MOCKSVILLE LOCATION: PRISON CAMP RD, 2 MI. W OF MOCKSVILLE, NEAR INTERSECTION OF SR 1140 & SR 1141 AT DAVIE CO PRISON CAMP TELEPHONE: (704) 634-2400 HOURS: 24 HRS -5ite



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APPENDIX A

GW	//UST-2	Site	Investigation Rep	ort F	or Pe	rman	ent C	losure	or Ch	ange-in-Service of U.S.T.
		urn Completed For							State	Use Only
			Regional Office according SE SIDE OF OWNER'S O							Number
1		FICE ADDRESS].	SE GIDE OF OWNER OF	, , ,	i iivity i	0,,,,,	.010117	\ _	Date	Received
				INST	RUCTIO	NS				
			Complete and return within	(30) day	s followi	ng comp	eletion o	f site inves	tigation.	
	l.	Ownership of Tank	(s)					B. I	ocation	of Tank(s)
		VC DOT			. _		y Name	: NC		Dir of Hwy
Corpora Street	tion, Individual, Pu Address:	blic Agency, or Other Entity) 4809 Bevy K	road		. _	(or Con Facili		if available): <i>O</i> -	025555
Count	 v: и	lake				Stree	t Addres	s A	71,	BOX 40314
City:			zip Code: 2760	6	` ⁻	(or Stat	e Road) tv:	Davie.	,	: Mocksvillez i p Code: 27028
	none Number:	7/10			- -	Telen	-			634 2400
Telepi	ione ivamber.	(Area Code)			_ _		<u> </u>		ea Code)	
					ntact P					
Name:	Evi	L Motzno	Job Title:	Нуг	drog	<u>ed o</u>	915t			Tel. No. (9/9)733 2220
Closure	Contractor:	DOT	Address:	_1/	ock:	sville	9			Tel. No. : (704) 634 3400
Primary	Consultant:		Address:							Tel. No. :
Lab:	DOT MA	terials + Tesi	Address:	P.O - J	Box a	1520	' , R4	ileigh		Tel. No. :(9/9) 733-3532
		V. U.S.T. Informatio	on I	\Me	V. Exc	avatio	_		Odor or	VI. Additional Information Required
Tank	Size in	Tank	Last	Exca	avation	Prod	uct		Contamination	See reverse side of pink copy (owner's copy) for additional
No.	Gallons	Dimensions	Contents	Yes	No	Yes	No	Yes		information required by
411	10,000	8x 26/2	Gasellne	<u> </u>	V	<u> </u>	V	<u> </u>	V	N.C DWQ in the written report and sketch.
412	10,000	8' x 26%	Gasoline		V		~		~	NOTE: If a release from the
413	10,000	8 x 26 5	Diesel		/		V		V	tank(s) has occurred, the site
K	3.000	64" x 18'	Kerosene		/		/		1	assessment portion of the tank closure must be conducted under
1-1-	2,000	VI X 10	1(0)010			<u> </u>				the supervision of a P.E. or L.G., with all closure site assessment
				\vdash			<u> </u>			reports bearing the signature and
										seal of the P.E. or L.G.
			VII. Check Lis	t (Ched	ck the a	ctivitie	s com	pleted)		
PE	RMANENT CL	OSURE (For Removi	ng or Abandoning-in-place)		I				
		al fire marshal. Regional Office before	o abandonment			A	BANDO	NMENT IN	IPLACE	
	Drain & flus	h piping into tank.								rerflows tank opening.
	Excavate d	product and residuals own to tank.	пот тапк.				Dis	connect a		emove vent line.
] Remove dr		pipe, vapor recovery tank c	onnectio	ons,		So	lid inert ma	iterial used	l - specify:
		e pumps and other tank all lines except the ve				B	<u>EMOVA</u>	<u>.L</u>		
		of all product & flamma more large holes in the						eate vent h oel tank.	ole.	
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			VIII_C	ertifica	ation (R	ead an	d Sian)		
I certi	fy under pe	enalty of law that I	•						nation su	bmitted in this and all attached
docur	nents, and	that based on my								the information, I believe that the
Print na	ame and offici	al title of owner or owner	er's authorized representativ	е	\Box	Signa	ature		 -	Date Signed
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APPENDIX B



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

JAMES G. MARTIN GOVERNOR

JAMES E. HARRINGTON SECRETARY 399 Craft Drive Winston-Salem, NC 27105 February 1, 1990 **DIVISION OF HIGHWAYS**

GEORGE E. WELLS, P.E. STATE HIGHWAY ADMINISTRATOR

Groundwater Regional Office 8025 North Point Blvd., Suite 100 Winston-Salem, NC 27106

Subject: Removal of Underground Fuel Tanks

Dear Sir:

This is to advise you that we plan to remove three 10,000 gallon fuel tanks from the N. C. Dept. of Transportation at Mocksville, North Carolina on March 1, 1990.

The site assessment will be performed by our geologist licensed and registered in the State of North Carolina. You will be provided a copy of results.

If there are other requirements we should be aware of, please advise.

Mr. F. E. Floyd is our contact person and he can be reached at 761-2416.

Sincerely,

D. R. Neal

Equipment Superintendent

DRN/btk

cc: R. L. Johnson
Jim Parker

APPENDIX C

N OF KERNERSVILLE UBLIC WORKS DEPARTMENT

Randy E. McCaslin, Town Manager Robert K. Campbell, Director

P.O. Drawer 728 Kernersville, N.C. 27285-0728

RECEIVED

720 McKaughan Street Telephone (919) 996-6916

August 9, 1990

AUG 13 1990

EQUIPMENT SUPT. DIVISION NO. 9

Mr. Don Neal N.C. Dept. of Transportation Division of Highways Equipment Maintenance Section 399 Craft Drive Winston-Salem, N.C. 27105

Dear Mr. Neal:

Confirming our phone conversation on August 8, 1990 whereby negotiations for 2 used 10,000 gallon tanks were completed, it is my understanding that there will be a \$15.00 processing fee for each tank and that the Town will be required to pick these tanks up at your maintenance center in Mocksville.

As mentioned to you, the tanks will be buried, filled with water and used to test the Town's fire department pump units on its' fire apparatus.

Thank you for your consideration of the Town's requirements.

Sincerely,

Public Works Director

RKC/pc

Jim Barrow Fire Chief

•	•			•		
n. Div	C. DEPARTMENT OF T ISION OF HIGHWAYS	PANSPORTATION		DATEOct	tober 19, 19	90
TO:	Mr. J. M. R Director of	urns, Jr. Equipment and In	ventory Con	trol	•	. (
FRO		perintendent, Div		•		•
Perm Non-	ission is requeste Rental Equipment: ED-UST-411	3		the followi	ing shop o	r
EQUI	PMENT NO. ED-UST-412 ED-UST-413	DESCRIPTION	10,000 gal	lon Storage Ta	nk	
J UNK	ED-031-413	SELL X Negi				_
TRANS	FER TO: NAI	Æ.		TOWN OF REFINE	241116	_
	•	VISION OR DEPARTME		_ -		_
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OTHER	7		•	4		-
REASO	V FOR ABOVE ACTION	Surplus - tank r	eplacement	- Remove f	rom records	-
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	*************	Superintendent, A	EQUIPR	ENT SUPERIN	TENDENT	
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****** TO: FROM: PERMISSI	Equipment Superi J. M. Burns, Jr. Director of Equi	DIRECTOR	EQUIPATE Piedmont ********* Date Ty Control DENIED	T AND INVEN	*****	TOL.
****** TO: FROM: PERMISSI Comment:	Equipment Superi J. M. Burns, Jr. Director of Equi	superintendent, And Andrews Antendent, Div. pment and Inventor GRANTED	EQUIPATE Piedmont ********* Date Ty Control DENIED	ENT SUPERIN	*****	TOL.

APPENDIX D

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION MATERIALS AND TESTS UNIT P.O. BOX 25201 , RALEISH , NORTH CAROLINA

REPORT DATE : 05/10/90

TEST REPORT FOR : SOIL FOR TPHC

QUANTITY :

LAB. NUMBER C-421548-421550

JOB NUMBER

2.100938

COUNTY

DAVIE .

PURCHASE ORDER

SEAN BOYLES

DATE: ** * * * 03-14-90

SAMPLED BY FURNISHED BY CHRIS NIVER METHOD: 3450, 8015, HANBY

LOCATION MOCKSVILLE DOT YD.

I.D. OR LOT # SEE BELOW

MAT. RCD # TANK PULL

TEST RESULTS

C-421548 UST#411 3-1 PETROLEUM HYDROCARBONS BY GC

BDL.

C-421549 UST#412 2-1 PETROLEUM HYDROCARBONS BY GC

C-421550

UST#413 1-1 PETROLEUM HYDROCARBONS BY GC

BDL

CC FILE CHRIS NIVER CHEM. LAB.

SIGNATURE :

CHEMICAL TESTING ENGINEER

MT-900

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION MATERIALS AND TESTS 1801 BLUE RIDGE ROAD RALEIGH, N.C. 27607 (919)733-3532

SUBMITTED BY: CHRIS NIVER	JOB NO.	<i>3,100</i>	13-8:
SAMPLE LOCATION: MOCKSUILLE DOT MAINT, FAC			
SAMPLED BY: FIELD			~ ["] , vo. ~ vo
SAMPLE TYPE: [] GROUNDWATER [X] SOIL [] OTHER_		EWATER	
TANK NO. (15T#41)			
DATE SAMPLED: 3/12/90 TIM			
WAS SAMPLE SHIPPED CHILLED? [X] YES [] NO			
NUMBER OF CONTAINERS 2			
SAMPLE IDENTIFICATION 3-1			
ANALYSIS (ES) REQUIREMENTS BYEX AND MYE	} €		
	·		
SHIPMENT			
DELIVERED BY: SEAN BONCS DATE 3/14/90 TI	ME 9:30	∑ [×] AM	[]PM
RECEIVED BY: DATE TI	ME	[] AM	[]PM
SAMPLE RECEIVING			
CONDITION OF SAMPLE			
STORAGE OF SAMPLE			
	rm pw cust	todyf	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION MATERIALS AND TESTS 1801 BLUE RIDGE ROAD RALEIGH, N.C. 27607 (919)733-3532

SUBMITTED BY: CHRIS WIVER	JOB NO. <u>2.100938</u>
SAMPLE LOCATION: MOCKSUILLE TOT MAINT.	EACILITY
SAMPLED BY: FIELD	
SAMPLE TYPE: [] GROUNDWATER [X] SOIL [] OTHER	
TANK NO. <u>UST #412</u>	
DATE SAMPLED: 3112190	rime:
WAS SAMPLE SHIPPED CHILLED? [X] YES [] N	10
NUMBER OF CONTAINERS	
ANALYSIS (ES) REQUIREMENTS BTEX AND M	TRE.
SHIPMENT	
DELIVERED BY: SEAN BOYLES DATE 3114190	TIME 9',30 [X]AM []PM
RECEIVED BY: DATE	TIME[]AM []PM
SAMPLE RECEIVING	
CONDITION OF SAMPLE	
STORAGE OF SAMPLE	
	form pw custodyf

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION MATERIALS AND TESTS 1801 BLUE RIDGE ROAD RALEIGH, N.C. 27607 (919)733-3532

SUBMITTED BY: CHRIS WIVER	JOB NO. <u>2.100938</u>
SAMPLE LOCATION: MOCKSWILLE DOT MAINT	EACILITY
SAMPLED BY: FIELD	
SAMPLE TYPE: [] GROUNDWATER [> SOIL [] OTHER	
TANK NO. UST #413	
DATE SAMPLED: 3/12/90	
WAS SAMPLE SHIPPED CHILLED? [X] YES []	
NUMBER OF CONTAINERS	
SAMPLE IDENTIFICATION 1-1	
ANALYSIS(ES) REQUIREMENTS TOTAL FEROLEU	w HYDROCARPONS
SHIPMENT	
DELIVERED BY: SEAN POLLS DATE 3/14/90	TIME 9:30 (XIAM (1PM
RECEIVED BY:DATE	
SAMPLE RECEIVING	
CONDITION OF SAMPLE	
STORAGE OF SAMPLE	
	form pw custodyf

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION MATERIALS AND TESTS UNIT P.O. BOX 25201 , RALEIGH , NORTH CAROLINA

REPORT DATE : 10/30/90

TEST REPORT FOR : SOIL FOR THHC

QUANTITY:

LAB. NUMBER C-425687

JOB NUMBER

2.100938

COUNTY DAVIE

PURCHASE ORDER

SAMPLED BY FIELD

SUPPLIER CHRIS NIVER

METHOD: 3450, 8015, HANBY

I.D. OR LOT # S-1

DATE 10-09-90

LOCATION MOCKSVILLE MAINT.

TEST RESULTS . **************

C-425687 FETROLEUM HYDROCARBONS BY GC S-1 AND HANBY METHOD (BLANK)

CC FILE

CHRIS NIVER

CHEM. LAB.

MT-900

SIGNATURE :

W. M. MEDFOKD

CHEMICAL TESTING ENGINEER:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION MATERIALS AND TESTS 1801 BLUE RIDGE ROAD RALEIGH, N.C. 27607 (919)733-3532

SUBMITTED BY: T. Chris Nivar JOB NO. 2/00938
SAMPLE LOCATION: Macksvilla maint YArd Davia Co.
SAMPLED BY:
SAMPLE TYPE: [] GROUNDWATER [// SOIL [] WASTEWATER [] OTHER
TANK NO. Karosana
DATE SAMPLED: $9/9/90$ TIME: $7.m$
WAS SAMPLE SHIPPED CHILLED? [// YES [] NO
NUMBER OF CONTAINERS
SAMPLE IDENTIFICATION 5-/
ANALYSIS (ES) REQUIREMENTS HANDY - TRH
Q. L. John SHIPMENT DELIVERED BY: PROBABLIC SIMPLE 10/10/90 TIME 3:00 [] AM [4]PM
RECEIVED BY: Jam D. Roland DATE 10/10/90 TIME 3:08 [] AM [GPM
SAMPLE RECEIVING
CONDITION OF SAMPLE
STORAGE OF SAMPLE Refrigurated
form by custodyf

DAYIE



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

RECEIVED N.C. Dept. NRCD

FEB 9 1990

Winston-Salem Regional Office

JAMES G. MARTIN GOVERNOR

JAMES E. HARRINGTON SECRETARY 399 Craft Drive Winston-Salem, NC 27105 February 1, 1990 **DIVISION OF HIGHWAYS**

GEORGE E. WELLS, P.E. STATE HIGHWAY ADMINISTRATOR

Groundwater Regional Office 8025 North Point Blvd., Suite 100 Winston-Salem, NC 27106

Subject: Removal of Underground Fuel Tanks

Dear Sir:

(NE DOT) Davie

This is to advise you that we plan to remove three 10,000 gallon fuel tanks from the N. C. Dept. of Transportation at Mocksville, North Carolina on March 1, 1990.

The site assessment will be performed by our geologist licensed and registered in the State of North Carolina. You will be provided a copy of results.

If there are other requirements we should be aware of, please advise.

Mr. F. E. Floyd is our contact person and he can be reached at 761-2416.

Sincerely,

D. R. Neal

Equipment Superintendent

DRN/btk

cc: R. L. Johnson Jim Parker

3+ 2+35 3+ 2+65